

Lesson 1-5

Understanding Decimals

Name: _____

Date: _____

Period: _____



Homework Video Tutor

Web Code: aqe-0105

Objective: We will be able to read, write and round decimals.

New Vocabulary: Expanded Form

Thousands										
Hundreds	1	2	7	.	5	3	6	9		
Tens										
Ones										
Tenths										
Hundredths										
Thousandths										
Ten Thousandths										
Hundred Thousandths										
Millionths										

Writing/Saying a Decimal in Words

1. Write/Say the number _____ the decimal.
2. When you see the decimal write/say _____.
3. Write/say the number _____ the decimal.
4. Write/say the place value of the very _____ digit.

Example 1: The price of a gallon of gasoline is \$2.459. Write 2.459 in words.



Quick Check: Write each decimal in words.

a) 67.3

b) 6.734

c) 0.67

Standard form and Expanded Form

Standard Form
0.75

=

Expanded Form
 $0.7 + 0.05$

Expanded Form- A sum that shows the _____ of each digit of a number.

Example 2: At a gymnastics meets, the best score on the pommel horse was nine and forty-two thousandths. Write the score in standard form and expanded form.

- _____ ← Write the whole number part & place the decimal point
- _____ ← Thousandths is _____ places to the right of the decimal point
- _____ ← Place the decimal number to the far right.
- _____ ← Insert a _____ into empty place values.

Standard Form

Expanded Form



Quick Check: The winning car in a race won by fifteen hundredths of a second. Write the decimal in standard and expanded forms.

Standard Form

Expanded Form

Rounding Decimals

Rounding decimals is similar to rounding whole numbers. Remember “1-4 hit the floor, 5-9 climb the vine!”

1. Underline the place value you are being asked to round to
2. Look at the number to its _____.
3. If rounding down, the number stays the same, if rounding up, add 1 to the number.

Example 3: Round 0.426 to the nearest hundredth.



Quick Check: Round each decimal to the underlined place.

a) 2.3438

b) 0.17347

c) 9.0953

Homework Exercises

Show Your Work!	Corrections/Comments/Explanations
<p>(1) Write each decimal in expanded form.</p> <p>a) 7.52 b) 0.239</p>	
<p>(2) Write each decimal in words.</p> <p>a) 3.004</p> <p>b) 1.28</p> <p>c) 3.08</p>	
<p>(3) Write each decimal in standard form.</p> <p>a) Sixty-four hundredths</p> <p>b) Nine and twelve hundredths</p>	
<p>(4) Guided Problem Solving (GPS): The diameter of a white blood cell is twelve ten-thousandths of a centimeter. Round the diameter to the nearest thousandth of a centimeter.</p> <p>a) Write twelve thousandths in standard form</p> <p>b) Round as normal.</p>	

(5) Round each decimal to the underlined place.

a) 0.683

b) 3.41469

c) 4.0625